



# Roofex®-2900PM

## Aliphatic PU with Bituminous emulsion modified, Elastomeric, Single component, Cold Applied, High Performance Waterproof Coating

### Product Properties

- Crack Bridging Waterproof coating for concrete surfaces based on modified Bituminous emulsion and Polyurethane resin.
- Resistance to Chlorides and Sulphates and other Mild Chemicals.
- Environmentally friendly, Non-Toxic and non-Flammable.
- Single component, Cold applied, Application by roller or spraying.
- Easy to Repair, Hence very economic
- Suitable for Roof Garden waterproofing
- It confirms to ASTM E96-92, ASTM D412, ASTM D2939, ASTM C309

### Areas of Application

- Waterproofing for Roof Gardening for both old and New roof
- Suitable for DPC waterproofing during new construction
- Suitable for Balcony, Terrace, Parking area, swimming pool, wet area Waterproofing.
- Suitable for Positive waterproofing for Foundation, retaining wall, Basements and other Concrete Sub-structures.
- Suitable seamless waterproof coating for water retaining structure like sewage tank, Firefighting tank, utility tank, sunken areas and inverted roofs.

### Application Notes

#### General

**Roofex® 2900PM** system is a single component Bituminous emulsion modified aliphatic polyurethane based liquid applied membrane specially designed for waterproofing of concrete structures subjected to high flexibility. It is an elastic membrane forming material, hence it can provide good crack bridging up to 2mm in concrete.

#### Advantage

**Roofex® 2900PM** provides excellent water vapor Barrier for the concrete structure. **Roofex® 2900PM** confirms to ASTM C309 hence it can also be recommended as waterproof cum curing compound for concrete structures. It forms a seamless, durable film with suitable bonding with Concrete, Cement Concrete blocks etc.

#### Surface Preparation

All surfaces should be cleaned thoroughly by mechanical equipment. All the unsound surface must be removed and make free from any foreign contaminations. Minor cracks honeycombs should be treated properly by readymade mortar. Any existing waterproofing work (If any) must be completely removed. Smoothen the base with mortar or readymade mortar.

Algae, Fungi, moss or small vegetation if any should be cleaned thoroughly with suitable herbicides for preventing further growth. After this treatment clean the surface with jet water completely.

#### Priming

**Roofex® 2900PM** can be used as a primer for the substrate. For primer 1part of **Roofex® 2900PM** can be diluted with 1 Part of Water.

#### Application

**Roofex® 2900PM** can be applied by Nylon bristle brush, Roller or squeegee Depending upon substrate. Application of Coating should be commenced on the Surface Saturated Dry condition for better workability. If the surface is Dry enough or if the surface temperature is more than 35°C then prior to application all the surface should be moisten by help of water to bring the surface in to SSD condition.

Minimum Two coats of **Roofex® 2900PM** are recommended for achieving better waterproofing properties. During the application of 1<sup>st</sup> coat the coating should be done in "X" Direction, ensuring continuation of coating through out the surface need to be waterproofed. 2<sup>nd</sup> coat should be applied after the 1<sup>st</sup> coat will be completely dry on the "Y" Direction, Ensuring Continuation of Coating throughout the surface.

During application of **Roofex® 2900PM** in Vertical or Horizontal corner a 45-50 gsm fiber mess can be sandwiched between 1<sup>st</sup> coat and the 2<sup>nd</sup> coat.

**Roofex® 2900PM** can be applied as a non-degradable curing cum waterproofing membrane for 1-day old concrete, immediately after removing of mould. In case of basement positive waterproofing, a protection board or a protective plaster is recommended before back filling, to prevent the membrane from any mechanical Damage.

#### Curing

**Roofex® 2900PM** is self-cure. Its curing time depends on type of substrate, Substrate / air temperature, humidity and thickness of layer. Any protective screed should be done after 24 hours of the application.



#### Technical Data for Roofex® 2900PM

Characteristic	Unit	Value*	Comments
Consumption	Gms /m <sup>2</sup> /coat	250	1-part Roofex® 2900PM with 1-part water Roofex® 2900PM( 1.5 kg/Sqm/2 coats/1mm DFT)
	Gms /m <sup>2</sup> /coat	750	
Softening point R & B	°C	120	As per ASTM D 36-84
Water Vapor Permeability	Gms /m <sup>2</sup> /day	0.15	As per ASTM E 96 -92
Elongation at Break	%	900%	As per ASTM D 412
Recovery at 350% elongation	%	50%	As per ASTM D 412
Resistance to water		No Blistering	As per ASTM D 2939
Specific gravity		1.05 +/- 0.01	
PH		9	
Temperature resistance	°C	-25 to +120	
Touch Dry	hrs	1-2	

#### Product Characteristics for Roofex® 2900PM

Type of Product	PU Modified with bituminous emulsion
Form	Smooth pasty liquid
Cleaning Agent	Water
Colour	Black
Shelf Life	12 months from date of Manufacture
Delivery	Roofex® 2900PM : 20 kg
Storage	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Disposal	Empty packs completely and dispose off carefully to protect our Environment

#### Safety Advice

Please Take notice of the safety information and advice given on the packaging labels, safety information sheets and General Application Advice.

**Note:** - The information on this Data Sheet is based on our experiences and correct to the best of our knowledge. It is However, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our Data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are binding if given in written form. The accepted engineering rules must be observed at all times.

**Edition:** - MC/IND/02022023, Some Technical Changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.